

CLAIMS

1. A crystallization method of N-[N-(3,3-dimethylbutyl)-L- α -aspartyl]-L-phenylalanine methyl ester crystals exhibiting the specific peaks of diffracted X-rays at angles of diffraction (2θ , CuK α rays) of at least 6.0° , 24.8° , 8.2° and 16.5° , which comprises using water alone or a mixture of water and a lower alcohol as the crystallization solvent and maintaining the nucleation temperature at 30°C or greater.

2. The crystallization method of Claim 1, wherein said lower alcohol is methanol, and the methanol content in the whole solution to be subjected to crystallization is 15 wt.% or less.

3. A crystallization method of N-[N-(3,3-dimethylbutyl)-L- α -aspartyl]-L-phenylalanine methyl ester crystals, which comprises using water alone or a mixture of water and a lower alcohol as the crystallization solvent and using, as the seed crystals, N-[N-(3,3-dimethylbutyl)-L- α -aspartyl]-L-phenylalanine methyl ester crystals exhibiting the specific peaks of diffracted X-rays at angles of diffraction (2θ , CuK α rays) of at least 6.0° , 24.8° , 8.2° and 16.5° , whereby the same type of crystals as the seed crystals are allowed to be preferentially precipitated.

4. The crystallization method of Claim 3, wherein said lower alcohol is methanol.

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